Notice of Allowability	Application No.	Applicant(s)
	09/740,376	CHEN ET AL.
	Examiner	Art Unit
	Thomas M Ho	2134
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to 1/03/05.	·	
2. X The allowed claim(s) is/are <u>1</u> .		
3. \boxtimes The drawings filed on $7/30/01$ are accepted by the Examin	er.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the street of the property of the street of the	on's Patent Drawing Review (PTC). s Amendment / Comment or in the comment or in the comment or the drawing should be written on the drawing.	Office action of ings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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 Attachm nt(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. Interview Summary Paper No./Mail Da 08), 7. Examiner's Amend	ate

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Response to Arguments

Applicant's arguments, see pages 1-3, filed 10/25/04, with respect to Claim 1 have been fully considered and are persuasive. The rejection of 7/22/04 has been withdrawn.

Reasons for Allowance

Upon the initial reading of the subject matter found in claim 1, the Examiner noted marked similarities to the Montgomery Multiplication Method. Minor differences between applicant's function, and the Montgomery Multiplication Method were however found.

The Examiner initially rejected the comparing of the sum of the Zi values with the sum of two products, the first product being the product of sums of the Ai and Bi terms, and the second product being the product of the sums of the Ni and Yi terms.

In the previous rejection, the Examiner mapped the following claim elements with the prior art.

Comparing the sum of the Z_i values with the sum of two products, the first product being the product of the sums of the A_i and B_i terms, and the second product being the product of the sums of the N_i and Y_i terms, where the sum of the Z_i values (A of 14.36) are compared using the sums of two products (x_i y and u_i m) from 2.2 of 14.36.



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Upon further examination though, it would appear that while a sum of the Zi values is present (as A) and first and second products are present as shown in 2.2 of 14.36, and a comparison is present as shown in Item 3, this comparison is not with A against the sum of two products. Instead in the Montgomery Multiplication method, the comparison of A is performed against another value m.

While a seemingly small difference, the Examiner notes that in the cryptographic art dealing with mathematical functions, even small difference in equations can have drastically different mathematical implications and provide a new set of relationships.

For this reason, the rejection of 7/22/04 has been withdrawn.

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